

Title (en)

METHOD FOR THE CATALYTIC REMOVAL OF CARBON DIOXIDE AND SULPHUR DIOXIDE FROM EXHAUST GASES

Title (de)

VERFAHREN ZUR KATALYTISCHEN ENTFERNUNG VON KOHLENDIOXID UND SCHWEFELDIOXID AUS ABGASEN

Title (fr)

PROCÉDÉ D'ÉLIMINATION CATALYTIQUE DE DIOXYDE DE CARBONE ET DE DIOXYDE DE SOUFRE DE GAZ D'ÉCHAPPEMENT

Publication

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Application

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Abstract (en)

[origin: WO2011138425A1] The present invention relates to a method for the catalytic removal of sulphur dioxide and carbon dioxide from exhaust gases in a reactor charged with an activated carbon catalyst, wherein the method comprises the following steps: ° saturation of the activated carbon with SO₂, ° saturation or partial saturation of the exhaust gases with water, ° introduction of the exhaust gases into the reactor, ° catalytic conversion of the SO₂ to H₂SO₄ and in parallel thereto, the catalytic conversion in the presence of the same catalyst of CO₂ to C and O₂ and also to sulphur-carbon compounds. ° Washing out the catalyst and discharging the H₂SO₄ as liquid and the C as solid and/or bound to sulphur compounds.

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